1.Component	FY 2005 MILITARY CONSTRUCTION PROGRAM	2.Date
NAVY		13 JAN 2004

3. Installation and Location/UIC: N68539	4. Project Title
NAVY SUPPORT FACILITY DIEGO GARCIA, NAVAL FAC, BR INDIAN OCEAN TERR	SOLID WASTE MANAGEMENT CENTER

5.Program Element	6.Category Code	7. Project Number	8. Project Cost ($000)
0702776N	83315	P146	17,500

9. COST ESTIMATES

Item	UM	Quantity	Unit Cost	Cost($000)
SOLID WASTE MANAGEMENT CENTER	LS			11740
LANDFILL (8 AC)	ha	3.24	1,688,272.00	(5470)
LANDFILL CONTROL BLDG (592 SF)	m2	55	6,364.00	(350)
TRUCK SCALE FACILITY	EA	1	70,000.00	(70)
TIPPING AREA (5,005 SF)	m2	465	1,269.00	(590)
RECYCLING EQUIPMENT BUILDING (1,615 SF)	m2	150	3,933.00	(590)
INCINERATOR (8,019 SF)	m2	745	6,134.00	(4570)
TECHNICAL OPERATING MANUALS	LS			(100)
SUPPORTING FACILITIES				3360
SPECIAL CONSTRUCTION FEATURES	LS			(2210)
ELECTRICAL UTILITIES	LS			(200)
MECHANICAL UTILITIES	LS			(400)
PAVING AND SITE IMPROVEMENTS	LS			(130)
SITE PREPARATIONS	LS			(370)
DEMOLITION	LS			(50)
SUBTOTAL				15100
CONTINGENCY (5%)				760
TOTAL CONTRACT COST				15860
SIOH (6.5%)				1030
SUBTOTAL				16890
DESIGN/BUILD - DESIGN COST				610
TOTAL REQUEST ROUNDED				17500
TOTAL REQUEST				17500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)				(1040)

10. Description of Proposed Construction

This project proposes the construction of a 3.24 hectare (8-acre) lined sanitary landfill with leachate collection and treatment system; a pre-engineered batch incinerator facility, and a pre-engineered recycling equipment facility. The project includes clearing and grubbing, fence, access road, truck scale, a concrete masonry unit (CMU) landfill control building, electrical power system, telephone system, potable water holding tank and distribution system, and sewage collection system with septic tank and subsurface disposal field. Special construction features include closing the existing landfill. Technical operating manuals will be provided. Sustainable principles will be included into the design, development, and construction of the project in accordance with Executive Order 13123 and other laws and executive orders.

11. Requirement: LS **Adequate:** LS **Substandard:** LS

PROJECT:

This project proposes to construct a sanitary landfill and batch incinerator facility.

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(Current Mission)

REQUIREMENT:

A lined sanitary landfill and an incinerator facility are needed for reliable, long-term disposal of solid wastes. Approximately 107 cubic meters per day of non-hazardous solid wastes are generated and require disposal. Incineration prior to landfilling is necessary to reduce the volume of landfilled waste and the size of the landfill. The limited land on Diego Garcia is either reserved for operational requirements or managed as water preservation areas to protect the island drinking water supply. Therefore waste reduction through incineration and diversion for recycling is critical for reducing the land area required for the new landfill. Recycling equipment is needed to process metals and glass for shipment for recycling and/or beneficial use on island. Recycling further reduces the quantity of landfilled waste.

CURRENT SITUATION:

Approximately 107 cubic meters per day of solid waste is generated by mission support activities from shore facilities and ships. The solid waste is burned in open, air-curtain type incinerators. Operation of these incinerators is characterized by visible smoke and open flames. Operators are exposed to heat, smoke and combustion gases. Ash removal is accomplished manually with ash still actively smoldering when removed. The residual ash is disposed in an existing 4.05 hectare unlined landfill. Certain materials, such as food waste, are disposed directly into the landfill without incineration.

The existing landfill and original incinerator facility were placed into operation in 1983. The original incinerator failed and was replaced by two packaged-type air-curtain incinerators. During the interim period before the replacement incinerators were placed into operation, solid waste was landfilled without incineration, rapidly depleting the available landfill capacity. Under the current revised landfill final grading plan and the projected solid waste loading, the existing landfill has sufficient capacity to accept incinerated waste through the year 2006. When the existing landfill capacity is exhausted, a new landfill is needed.

IMPACT IF NOT PROVIDED:

The existing landfill will exceed its capacity. Solid waste may be stored in unlined areas in violation of the Diego Garcia Final Governing Standards, potentially endangering the environment. Stringent waste reduction measures may become necessary which could impose restrictions on the ability of various groups to accomplish their mission support activities.

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12. Supplemental Data:

A. Estimated Design Data:

1. Status:

(A) Date Design Start		082002
(B) Date Design 35% Complete		092004
(C) Date Design Completed		042005
(D) Percent Completed as of	SEPTEMBER 2003	3%
(E) Percent Completed as of	JANUARY 2004	3%
(F) Type of Design Contract		Design Build
(G) Parametric Estimate used to develop cost		Yes
(H) Energy study/Life cycle analysis performed		Yes

2. Basis:

(A) Standard or Definitive Design:	No
(B) Where Design Was Most Recently Used:	N/A

3. Total Cost (C) = (A) + (B) = (D) + (E) :	$580
(A) Production of Plans and Specifications	$500
(B) All other Design Costs	$80
(C) Total	$580
(D) Contract	$80
(E) In-House	$500
4. Contract Award	012005
5. Construction Start	042005
6. Construction Complete	042007

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Civil Engineering Support Equipment	OPN	2005	1,040

JOINT USE CERTIFICATION:

The Regional Commander certifies that this project has been considered for joint use potential. Unilateral Construction is recommended. This is an installation utility/infrastructure project and does not qualify for joint use at this location, however, all tenants on this installation are benefited by this project.

Activity POC: Randy Torigoe Phone No: DSN 243-9247